



SEQUENCE LISTING

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Manna, Adar
Zhang, Gongyi

<120> COMPOSITIONS AND METHODS FOR AFFECTING VIRULENCE DETERMINANTS IN BACTERIA

<130> DC-0199

<140> US 10/043,539
<141> 2002-01-11

<150> US 60/261,233
<151> 2001-01-12

<150> US 60/261,607
<151> 2001-01-12

<150> US 60/289,601
<151> 2001-05-08

<160> 34

<170> PatentIn version 3.1

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taacatagtt gtagatagtt ttcgatttaa tacattaaat gtgaaccttg ctacaacaag 180
atgtgcatca gaaggagtgg tttaata atg agt aaa att aat gat att aat gat 234
Met Ser Lys Ile Asn Asp Ile Asn Asp
1 5
tta gtc aac gca aca ttt caa gtt aag aag ttt ttc aga gat aca aaa 282
Leu Val Asn Ala Thr Phe Gln Val Lys Lys Phe Phe Arg Asp Thr Lys
10 15 20 25
aag aag ttc aat ttg aac tat gaa gaa att tat att tta aat cat att 330
Lys Lys Phe Asn Leu Asn Tyr Glu Glu Ile Tyr Ile Leu Asn His Ile
30 35 40
tta aga agt gag tct aac gaa atc tca tct aaa gag att gct aag tgc 378
Leu Arg Ser Glu Ser Asn Glu Ile Ser Ser Lys Glu Ile Ala Lys Cys
45 50 55
tca gag ttc aaa cct tac tat tta act aaa gct tta gaa aag cta aaa 426
Ser Glu Phe Lys Pro Tyr Tyr Leu Thr Lys Ala Leu Gln Lys Leu Lys
60 65 70
gat tta aaa ttg tta tca aag aaa aga agt tta caa gac gaa aga aca 474
Asp Leu Lys Leu Leu Ser Lys Lys Arg Ser Leu Gln Asp Glu Arg Thr
75 80 85
gtt att gtt tat gtt aca gat aca caa aaa gca aat att caa aaa ctg 522

Val Ile Val Tyr Val Thr Asp Thr Gln Lys Ala Asn Ile Gln Lys Leu
 90 95 100 105
 att tca gaa tta gaa gaa tac att aaa aat taaatcaagg ttaattgcgt 572
 Ile Ser Glu Leu Glu Glu Tyr Ile Lys Asn
 110 115
 ttaataacat tgaacgataa caatttatta atacgaagtt atttattcag cattgggaca 632
 taaaattaac ttaaaattta aatattgaag atgctttaat taaagttaaa gaccagccat 692
 accttatttc agcttattta gcttgacaca aggtacacta gtctttttat tttaatattt 752
 tcttagaaaa tcaagtttac gatcataaat attttctgcg atatagcttt ggatgggtcc 812
 aagtattttc tctataattt gtgtgcgata agcaaaaatt ctaactgcaa aaccatgtgt 872
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Val Lys Lys Phe Phe Arg Asp Thr Lys Lys Lys Phe Asn Leu Asn Tyr
 20 25 30

Glu Glu Ile Tyr Ile Leu Asn His Ile Leu Arg Ser Glu Ser Asn Glu
 35 40 45

Ile Ser Ser Lys Glu Ile Ala Lys Cys Ser Glu Phe Lys Pro Tyr Tyr
 50 55 60

Leu Thr Lys Ala Leu Gln Lys Leu Lys Asp Leu Lys Leu Leu Ser Lys
 65 70 75 80

Lys Arg Ser Leu Gln Asp Glu Arg Thr Val Ile Val Tyr Val Thr Asp
 85 90 95

Thr Gln Lys Ala Asn Ile Gln Lys Leu Ile Ser Glu Leu Glu Glu Tyr
 100 105 110

Ile Lys Asn
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Met Ala Ile Thr Lys Ile Asn Asp Cys Phe Glu Leu Leu Ser Met Val

1 5 10 15
 Thr Tyr Ala Asp Lys Leu Lys Ser Leu Ile Lys Lys Glu Phe Ser Ile
 20 25 30
 Ser Phe Glu Glu Phe Ala Val Leu Thr Tyr Ile Ser Glu Asn Lys Glu
 35 40 45
 Lys Glu Tyr Tyr Leu Lys Asp Ile Ile Asn His Leu Asn Tyr Lys Gln
 50 55 60
 Pro Gln Val Val Lys Ala Val Lys Ile Leu Ser Gln Glu Asp Tyr Phe
 65 70 75 80
 Asp Lys Lys Arg Asn Glu His Asp Glu Arg Thr Val Leu Ile Leu Val
 85 90 95
 Asn Ala Gln Gln Arg Lys Lys Ile Glu Ser Leu Leu Ser Arg Val Asn
 100 105 110
 Lys Arg Ile Thr Glu Ala Asn Asn Glu Ile Glu Leu
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24

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 taacatagtt ggatagagtt ttcgatttaa tacattaaat gtgaaccttg ctacaacaag 180
 atgtgcatca gaaggagtgg ttaataaatg 210

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aaa 3

<210> 22
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<212> DNA
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aattaccttg tattgtcgat 20

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<212> DNA
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aaggtaaatt ataaaaaatg ct 22

<210> 24
<211> 8
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cagaaata 8

<210> 25
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20 25 30

Ser Phe Glu Glu Phe Xaa Ile Leu Thr Tyr Ile Xaa Xaa Gln Xaa Glu
35 40 45

Asn Glu Xaa Xaa Leu Lys Asp Ile Ile Xaa Xaa Leu Xaa Tyr Lys Gln
50 55 60

Pro Gln Leu Val Lys Ala Leu Lys Xaa Leu Lys Lys Xaa Xaa Tyr Leu
65 70 75 80

Ser Lys Lys Arg Ser Xaa Xaa Asp Glu Arg Thr Val Leu Ile Xaa Val
85 90 95

Xaa Asp Xaa Gln Arg Xaa Lys Ile Glu Xaa Leu Leu Ser Xaa Val Asn
100 105 110

Gln Xaa Ile Lys Xaa Xaa Asn Xaa
115 120

<210> 27
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<213> Staphylococcus aureus

<400> 27

Met Lys Tyr Asn Asn His Asp Lys Ile Arg Asp Phe Ile Ile Ile Glu
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Ala Tyr Met Phe Arg Phe Lys Lys Lys Val Lys Pro Glu Val Asp Met
20 25 30

Thr Ile Lys Glu Phe Ile Leu Leu Thr Tyr Leu Phe His Gln Gln Glu
35 40 45

Asn Thr Leu Pro Phe Lys Lys Ile Val Ser Asp Leu Cys Tyr Lys Gln
50 55 60

Ser Asp Leu Val Gln His Ile Lys Val Leu Val Lys His Ser Tyr Ile
65 70 75 80

Ser Lys Val Arg Ser Lys Ile Asp Glu Arg Asn Thr Tyr Ile Ser Ile
85 90 95

Ser Glu Glu Gln Arg Glu Lys Ile Ala Glu Arg Val Thr Leu Phe Asp
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Gln Ile Ile Lys Gln Phe Asn
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<210> 28
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<213> Staphylococcus aureus

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Tyr Thr Met Tyr Phe Lys Asn Ile Ile Lys Lys His Leu Thr Leu Ser
20 25 30

Phe Val Glu Phe Thr Ile Leu Ala Ile Ile Thr Ser Gln Asn Lys Asn
35 40 45

Ile Val Leu Leu Lys Asp Leu Ile Glu Thr Ile His His Lys Tyr Pro
 50 55 60

Gln Thr Val Arg Ala Leu Asn Asn Leu Lys Lys Gln Gly Tyr Leu Ile
 65 70 75 80

Lys Glu Arg Ser Thr Glu Asp Glu Arg Lys Ile Leu Ile His Met Asp
 85 90 95

Asp Ala Gln Gln Asp His Ala Glu Gln Leu Leu Ala Gln Val Asn Gln
 100 105 110

Leu Leu Ala Asp Lys Asp
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<400> 31

Glu Thr Gly Gln Ile Val
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<210> 32
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 <212> PRT
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Cys Ser Arg Gln Thr Val Gly Arg Ile Leu Lys Met Leu Glu Asp Gln
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Asn Leu Ile Ser Ala His Gly Lys Thr Ile Val Val
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<400> 33
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